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VOL. IX...NO. 454. BLOOMFIELD, N. J., SATURDAY, OCTOBER 1, 1881. TERMS: (SINGLE COPIES 5 CENTS; SUBSCRIPTION PER ANNUM \$1.50 IN ADVANCE)

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CORNER MIDLAND AND MADISON AVENUE,
BLOOMFIELD, N. J.

LITERATURE OF THE DAY.
A PETITION.
Thy latticed window open wide
Let in the Summer breeze
The sweets of jasmine and of rose—
The sigh of leaf-crowned trees.
All Summer sounds—all accents of June
Are welcome all day long—
If all of these may entrance find,
Dear love, why not my song?
Thy hand is ever open, sweet,
To succor others' woes—
What gifts thou givest to their need,
But God and thou may know,
But supplicants for thy charity
Unanswered never stand—
Thou givest them all that hand can give—
Why not give me the hand?
In thy pure heart the poor find room,
And all who suffer—sweet,
Whatever cause has smitten them,
Ah, then, how much more meet
To succor me, whom thou hast hurt.
Thy heart to these is true,
And to that heart they find a way—
Ah! let me find one, too.
—F. Dodd, in Good Words.
INSTRUCTION AS TO HOT DAYS.
From the Philadelphia Ledger, July 29.
"How is it that the heat affects us less on some days with the thermometer at 90 degrees than on others with the mercury at 80 to 90 degrees?" This is the question asked by a correspondent with an observing turn of mind, and he refers to two dates as exemplifying what he means. These are the 13th and 14th of this month, which we clearly remember as to their relative comfort and discomfort. We might reply to him briefly that the thermometer does not tell all the story as to the "bearability" of heat. Other things come in to ameliorate or to aggravate the temperature—a breeze or the quantity of moisture in the air. "Relative humidity," however, as you find in the weather reports, is the great helper or the great offender. It is less comfortable on a hot moist day than on a hotter dry day.
On Tuesday, July 13, the first of the days mentioned, the maximum temperature (at the Signal Office) was 80 degrees and the relative humidity (or moisture in the air) ranged from 82 to 100 per cent., with an effect by no means pleasant. It was a sultry, "muggy" day, while on Thursday, the 14th, the thermometer rising to a much higher point (90.4 degrees) than on the 13th, the humidity was much lower, ranging from 34 to 54 per cent., leaving the heat much more endurable. This latter day was in fact, not due to a stronger breeze, as the Signal Service anemometer (wind-measure) registered the same velocity of the winds—from 4 to 10 miles an hour—on both days. The sensible difference in the two days, as respects the comfort of the body is, therefore, traceable to the great humidity of the air on the 13th and the smaller degree of moisture on the 14th.
The term "relative humidity," or "humidity," it is true, does not refer to the absolute quantity of moisture in the air. In the language of meteorologists, the term "humidity" denotes the degree of its approach to saturation in the air, (or containing as much as it can hold.) It expresses the proportion which the amount of vapor actually present in the air bears to that amount which the air would hold if it was at the point of saturation—when dew, mist, or rain is about to fall from it. When the humidity is recorded as 100, the air is completely saturated with moisture, and rain is imminent, but it reported at 75 it contains only three-fourths of the amount requisite for saturation. Fortunately for Philadelphia, the average humidity of these two years is not over 60 per cent., and we are exempt from the sultry climate of many places lying even in higher altitudes.
It is of great importance for those who would profit by the daily Signal Service reports to bear in mind the significance of its "humidity" column, especially in the so-called "dog days." The warmer the air is the larger becomes the quantity of invisible vapor it is capable of sustaining and storing away in the interstices between its atoms. At the freezing point it can only hold one-hundredth part of its own weight of invisible vapor; at the temperature of 50 degrees the one-eighth part of its weight; at 86 degrees one-fourth part, and for every addition of 27 degrees of temperature its capacity is doubled. If fully saturated at 32 degrees of temperature it contains 2.37 grains of aqueous vapor per cubic foot; at 60 degrees, 5.87 grains in each cubic foot; and at 80 degrees of the thermometer, 10.91 grains. A fall of temperature from 80 to 60 degrees throws down, therefore, nearly 5 grains of water from every cubic foot of air thus chilled. A cubic foot of saturated air under average pressure and a temperature of 90 degrees weighs 495 grains. (Troy) of which 14.6 are pure aqueous vapor. With the temperature verging on 100 degrees, as it sometimes does in our "warm waves," the atmosphere, at saturation, contains as much as 191 grains of water to the cubic foot, from which some idea may be gathered of the enormous rainfall possibilities of tropical clouds, which, heated up directly under the fierce sun, are laden with the evaporation from equatorial seas.
As these watery particles, after ascending to the head of both the earth and air beneath them, which is seeking to escape by radiation into the upper atmosphere, they then effectively prevent the cooling of the soil and of the lower strata of air. While the "relative humidity" data in the Weather Bureau's bulletins do not give the absolute amount of vapor in the air, nevertheless, when the percentages are given high, or near 100, they show that the molecules of vapor are crowding overhead, and are forming with the air-stems a canopy above, which intercepts the heat of the earth in its attempt to fly into the clouds. The vapor present also prevents the body from throwing off its surplus heat. The ability of the human frame to bear or throw off the high cumulative temperature thus engendered in our midsummer weather depends upon several circumstances. Evaporation from the skin and lungs is perhaps the most important means the body has of reducing its surplus heat, as Dr. Max Von Pettenkofer, the eminent Munich hygienist, has shown by the use of an apparatus for testing the quantity of water evaporated by men and animals. His experiments demonstrate that men at rest evaporate about two pounds only during 24 hours, but on a day of hard work four and a half pounds of water. "In the first instance," he says, "about 2,016 calories units; in the second, 4,480 had to leave the body in consequence of evaporation," and he forcibly adds: "This explains how it can be that even with the hardest work our blood will not become warmer, but sometimes even cooler, and what powerful means of cooling our body we have in the increase of our peripheral circulation, and consequent evaporation." Prof. Lotze, of Lyons, while ascending Mount Blanc found that the temperature in his mouth and armpits was less than the normal, and became normal only when he was at rest. But the cooling effect of "evaporation" is verified on a grander scale in the meteorology of the tropics. Last year, for instance, while in the high latitudes of London and Boston, the thermometer reached or exceeded about 60 degrees; at the island of Mauritius, lying in the "steaming bosom" of the Indian Ocean, within 30 degrees of the equator, the thermometer never once rose during the year over 85.6 degrees, and the register for 1880 shows that at the island of Barbados, 13 degrees from the equator, and in the hottest part of the equatorial ocean, the maximum temperature for the year was 83 degrees. The greater coolness of these tropical islands was, of course, due to the rapid evaporation of the equatorial seas around them; and the fact demonstrates more palpably than even Dr. Von Pettenkofer's costly apparatus the hygienic value of evaporation for the cooling of our body.
HIS LAST DOSE.
Said a sufferer from kidney troubles when asked to try Kidney-Wort: "I'll try it, but it will be my last dose." The man got well, and is now recommending the remedy to all.
When derangement of the stomach acts upon the kidneys and liver, bringing nausea and pain, Kidney-Wort is the true remedy. It removes the cause and cures the disease.
AMUSING.
People talk of a visit to the salt sea for the purpose of getting a little fresh air. That assertion that we attended a ball game, Sunday is false. We've got the fish to prove it.—Boston Post.
"That butter is too fresh," as the man remarked when the post-lifted him over the garden fence.
When a New Orleans man wanted his picture in a heroic attitude, the artist painted him in the act of refusing a drink.—Boston Post.
Texas Siftings asks: "Might we not have rain, if all the politicians with clouds hanging over them were called together in convention?"
A correspondent should always make it a point to add to a newspaper communication, "If too long, please cut down to suit your self." This reassures the editor and suggests a way out of a possible difficulty which might never have occurred to him.—Boston Transcript.
Dr. Gunther says there are seven thousand species of fish now known to men of science. When a man sits on a river bank half a day watching a cord idly floating on the stream, and comes home with a snubbed nose and not a single specimen of those seven thousand species, he is inclined to think Dr. Gunther is a patent medicine advertisement.—Norristown Herald.
"Yes," whispered the boy to Mr. Bartram, "I'm ready to pay for my ticket, but I want the privilege of going in lying crawling under the tent." And Mr. Bartram agreed and ordered the guards not to interfere with the lad, and after the boy had performed the feat Mr. Bartram went inside and asked his reason for it, and the lad explained that he had not over \$2 but with boys who had tried the crawl and failed that he would succeed in it.
Unhealthy or inactive kidneys cause gravel, Bright's disease, rheumatism, and a host of other serious and fatal diseases, which can be prevented with Key-Bitters, if taken in time.